

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Currently Amended) A method in a data processing system for monitoring transactions for a set of known nodes in a network data processing system, the method comprising:

receiving cache data from a router in the data processing system, wherein the cache data includes an identification of the set of known nodes sending data packets for transactions onto the network data processing system;

identifying the transactions handled by each node in the set of known nodes using the identification of the set of nodes included in the cache data received from the router, to form identified transactions;

analyzing the identified transactions; and

in response to the analyzing the identified transactions, selectively initiating a load balancing process for at least one of the nodes in the set of known nodes to mitigate transaction overload at the at least one of the nodes.

2. (Original) The method of claim 1, wherein the cache data is from an address resolution protocol cache located on the router.

3. (Original) The method of claim 1 further comprising:  
receiving cache data from other routers on the network data processing system.

4. (Previously Presented) The method of claim 1, wherein the receiving step occurs on a periodic basis.

5-6. (Cancelled)

7. (Original) The method of claim 4 further comprising:  
generating a display of the set of known nodes in a graphical view, wherein the graphical view includes the communications paths with a graphical indication of the network traffic.

8. (Original) The method of claim 2, wherein the cache data is received through an agent located on the router.

9. (Cancelled)

10. (Currently Amended) A data processing system for monitoring transactions for a set of known nodes in a network data processing system, the data processing system comprising:

- a bus system;
- a communications unit connected to the bus system;
- a memory connected to the bus system, wherein the memory includes a set of instructions; and
- a processing unit connected to the bus system, in which the processing unit executes the set of instructions to receive cache data from a router in the data processing system, in which the cache data includes an identification of the set of known nodes sending data packets for transactions onto the network data processing system, identifies the transactions handled by each node in the set of known nodes using the identification of the set of nodes included in the cache data received from the router, to form identified transactions; analyzes the identified transactions; and in response to the analyzing the identified transactions, selectively initiates a load balancing process for at least one of the nodes in the set of known nodes to mitigate transaction overload at the at least one of the nodes.

11. (Currently Amended) A data processing system, including a system bus data processor, for monitoring transactions for a set of known nodes in a network data processing system, the data processing system comprising:

- a data processor coupled to the system bus;
- receiving means for receiving cache data from a router in the data processing system, wherein the cache data includes an identification of the set of known nodes sending data packets for transactions onto the network data processing system;
- identifying means for identifying the transactions handled by each node in the set of known nodes using the identification of the set of nodes included in the cache data received from the router, to form identified transactions;
- analyzing means for analyzing the identified transactions; and
- initiating means for selectively initiating, responsive to the analyzing means for analyzing the identified transactions, a load balancing process for at least one of the nodes in the set of known nodes to mitigate transaction overload at the at least one of the nodes.

12. (Original) The data processing system of claim 11, wherein the cache data is from an address resolution protocol cache located on the router.

13. (Original) The data processing system of claim 11 wherein the receiving means is a first receiving means and further comprising:

second receiving means for receiving cache data from other routers on the network data processing system.

14. (Previously Presented) The data processing system of claim 11, wherein the receiving means is initiated on a periodic basis.

15-16. (Cancelled)

17. (Original) The data processing system of claim 14 further comprising:

generating means for generating a display of the set of known nodes in a graphical view, wherein the graphical view includes the communications paths with a graphical indication of the network traffic.

18. (Currently Amended) A computer readable medium encoded with a computer program product that is operable in a data processing system for monitoring transactions for a set of known nodes in a network data processing system, the computer program product comprising:

first instructions for receiving cache data from a router in the data processing system, wherein the cache data includes an identification of the set of known nodes sending data packets for transactions onto the network data processing system;

second instructions for identifying the transactions handled by each node in the set of known nodes using the identification of the set of nodes included in the cache data received from the router, to form identified transactions;

third instructions for analyzing the identified transactions; and

fourth instructions for selectively initiating, in response to the third instructions for analyzing the identified transactions, a load balancing process for at least one of the nodes in the set of known nodes to mitigate transaction overload at the at least one of the nodes.

19. (Original) The computer program product of claim 18, wherein the cache data is from an address resolution protocol cache located on the router.

20. (Previously Presented) The computer program product of claim 18 further comprising:  
fifth instructions for receiving cache data from other routers on the network data processing system.
21. (New) The method of claim 8, where the agent clears the address resolution protocol cache each time the cache data is sent to the data processing system.
22. (New) The method of claim 1, wherein the router receives a request from a client data processing system, where the request is then received by a network dispatcher that is interconnected to the router and a plurality of server data processing systems, where the plurality of servers appear to the client as a single server having a single network address.
23. (New) The data processing system of claim 11, wherein the router receives a request from a client data processing system, where the request is then received by a network dispatcher that is interconnected to the router and a plurality of server data processing systems, where the plurality of servers appear to the client as a single server having a single network address.
24. (New) The computer program product of claim 18, wherein the router receives a request from a client data processing system, where the request is then received by a network dispatcher that is interconnected to the router and a plurality of server data processing systems, where the plurality of servers appear to the client as a single server having a single network address.